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NOTICE OF ALLOWANCE AND FEE(S) DUE

23432

7590

05/29/2009

COOPER & DUNHAM, LLP 30 Rockefeller Plaza 20th Floor NEW YORK, NY 10112

EXAMINER				
GAMETT, DANIEL C				
ART UNIT	PAPER NUMBER			

1647

DATE MAILED: 05/29/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/789,308	02/26/2004	Thomas Jessel	0575/79180-B/JPW/CSS	8009

TITLE OF INVENTION: SYSTEMS AND METHODS FOR SCREENING FOR MODULATORS OF NEURAL DIFFERENTIATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	08/31/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

ppropriate. All further ndicated unless correcte naintenance fee notifica		ng the Patent, advance on nerwise in Block 1, by (a	ders and notification a) specifying a new co	of m orresp	aintenance fees woondence address;	ill be a and/or	mailed to the current of (b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
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23432	7590 05/29	/2009			Cer	tificate	of Mailing or Transn	nission
30 Rockefeller P 20th Floor	UNHAM, LLP Plaza			I here State addre trans	eby certify that the s Postal Service we essed to the Mail mitted to the USP	is Fee(s rith suf Stop ΓΟ (57	s) Transmittal is being ficient postage for first ISSUE FEE address at 273-2885, on the da	deposited with the United class mail in an envelope above, or being facsimile te indicated below.
NEW YORK, N	Y 10112							(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/789,308	02/26/2004	-	Thomas Jessel			0575/	79180-B/JPW/CSS	8009
		HODS FOR SCREENIN						
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	S FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300 -	_	\$0		\$1055	08/31/2009
EXAM		ART UNIT	CLASS-SUBCLASS					
GAMETT,		1647	435-325000					
. Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE		data will appear on the Tasubstitute for filing (B) RESIDENCE: (C)	he pa g an a	tent. If an assign ssignment. and STATE OR C	OUNT	RY)	cument has been filed for
lease check the appropr	iate assignee category or	categories (will not be pr	inted on the patent):		Individual 🖵 Co	orporati	on or other private grou	up entity Government
a. The following fee(s): Issue Fee Publication Fee (N Advance Order - 4	are submitted: No small entity discount p # of Copies	permitted)	A check is enclos Payment by credi	ed. t card creby	l. Form PTO-2038 authorized to char	is atta	required fee(s), any def	
	tus (from status indicated is SMALL ENTITY statu		☐ b. Applicant is no	long	er claiming SMAI	LL ENT	TITY status. See 37 CF	R 1.27(g)(2).
OTE: The Issue Fee an aterest as shown by the	d Publication Fee (if requeecords of the United Sta	uired) will not be accepted tes Patent and Trademark	d from anyone other the Office.	nan th	e applicant; a regi	stered a	attorney or agent; or the	e assignee or other party in
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COOPER & DUNHAM, LLP		GAMETT,	DANIEL C	
30 Rockefeller Plan	za		ART UNIT	PAPER NUMBER
20th Floor NEW YORK, NY 10112			1647 DATE MAILED: 05/29/200	9

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 231 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 231 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	10/789,308	JESSEL ET AL.	
Notice of Allowability	Examiner	Art Unit	
	DANIEL C. GAMETT	1647	
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu IGHTS . This application is s	this application. If not included nication will be mailed in due cours	
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2. ☑ The allowed claim(s) is/are <u>81-87</u> .			
3.	e been received. e been received in Application cuments have been received of this communication to file MENT of this application. ditted. Note the attached EXA es reason(s) why the oath or set be submitted. Son's Patent Drawing Review.	n No I in this national stage application from this national stage application from the requirent a reply complying with the requirent MINER'S AMENDMENT or NOTIC declaration is deficient.	nents
Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the same of the sheet.	.84(c)) should be written on th	e drawings in the front (not the back) of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATE	RIAL must be submitted. Note t	he
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Su Paper No./I 7. ☐ Examiner's . —	ormal Patent Application Immary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowanc	e

Application/Control Number: 10/789,308 Page 2

Art Unit: 1647

DETAILED ACTION

1. Claims 81-87 are currently pending and are present for examination.

2. The following is an examiner's statement of reasons for allowance: Rejection of Claims 81, 84 and 85 on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1 and 3 of U.S. Patent No. 7,390,659 is withdrawn in view of Applicants' persuasive argument, filed 01/12/2009. It is noted that the instant pending claims and the allowed claims are directed to methods of identifying candidate molecules on the basis of the observed effects of the candidate molecules on neural cells derived from embryonic stem cells by the sequential actions of retinoic acid and a hedgehog protein. Applicants persuasively argue that step (d) of claim 85 of the subject application is different from step (e) of claims 1 and 3 of the '659 patent. The final steps of the instant claims require an observation of motor neuron phenotype or differentiation, whereas claims 1 and 3 of the '659 patent recite a determination of cell growth or regeneration. The definitions of "enhance regeneration" and "growth" provided by the '659 patent do not include the rate of motor neuron differentiation. (Column 23, lines 41-47). Therefore, the methods of the instant claims have different designs and modes of operation as compared to those of the allowed claims. Although some candidate molecules may both enhance growth and promote motor neuron differentiation, it would not be predictable or obvious that the instantly claimed methods would lead to identification of the same candidates. It appears, therefore, that the instantly claimed methods and claims 1 and 3 of the '659 patent are not

Application/Control Number: 10/789,308 Page 3

Art Unit: 1647

obvious variants of one another. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel C. Gamett, PhD., whose telephone number is (571)272-1853. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Manjunath N. Rao can be reached on 571 272 0939. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Daniel C Gamett/ Examiner, Art Unit 1647